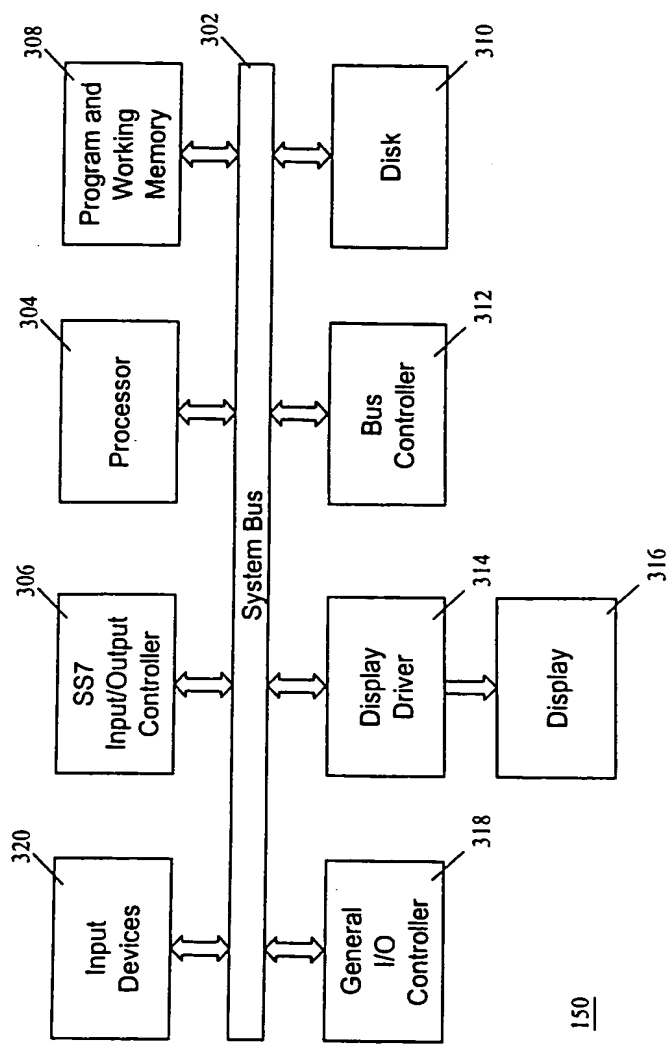


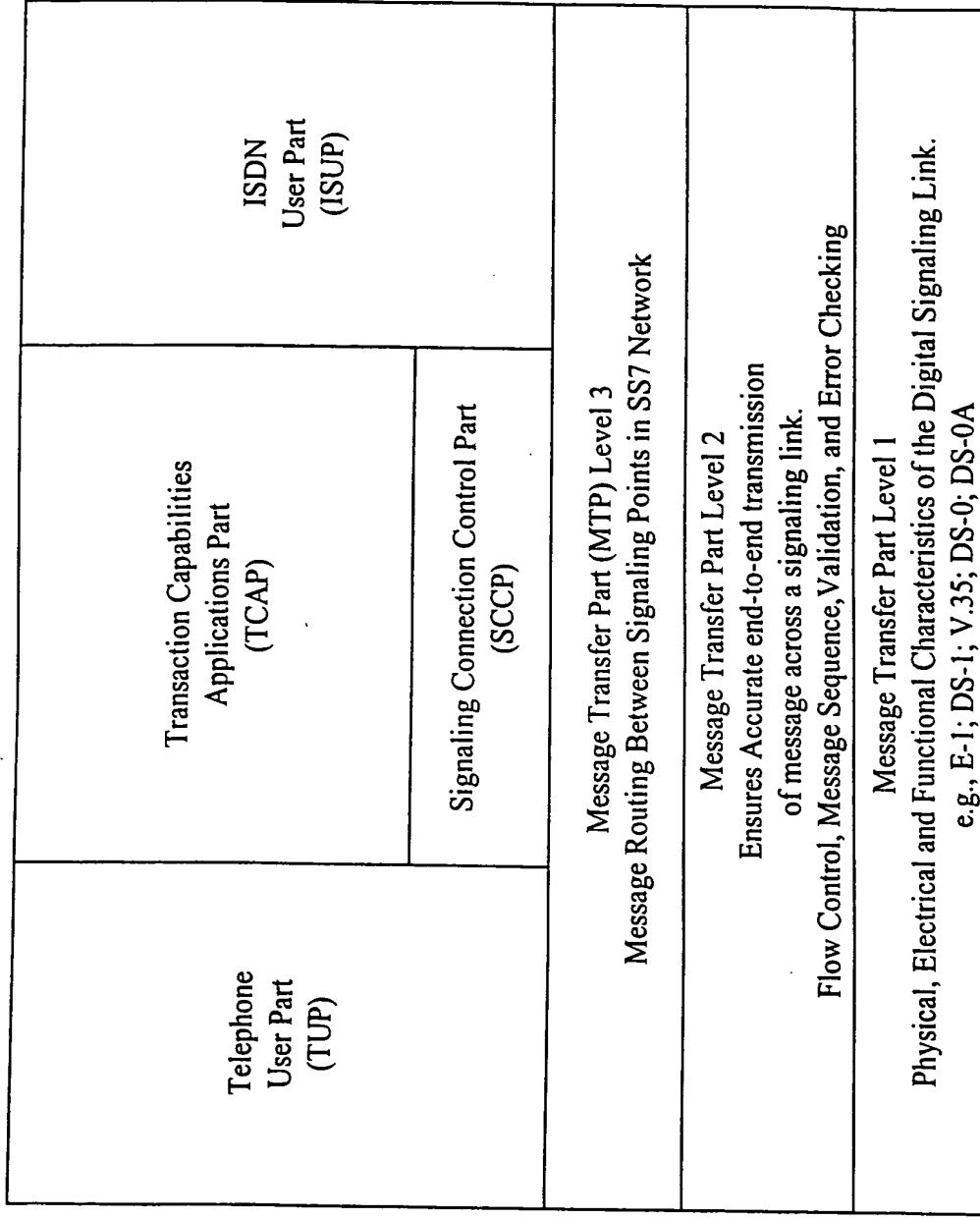
Figure 1





150

Figure 3



SS7 Protocol Stack

Figure 4

### Figure 5

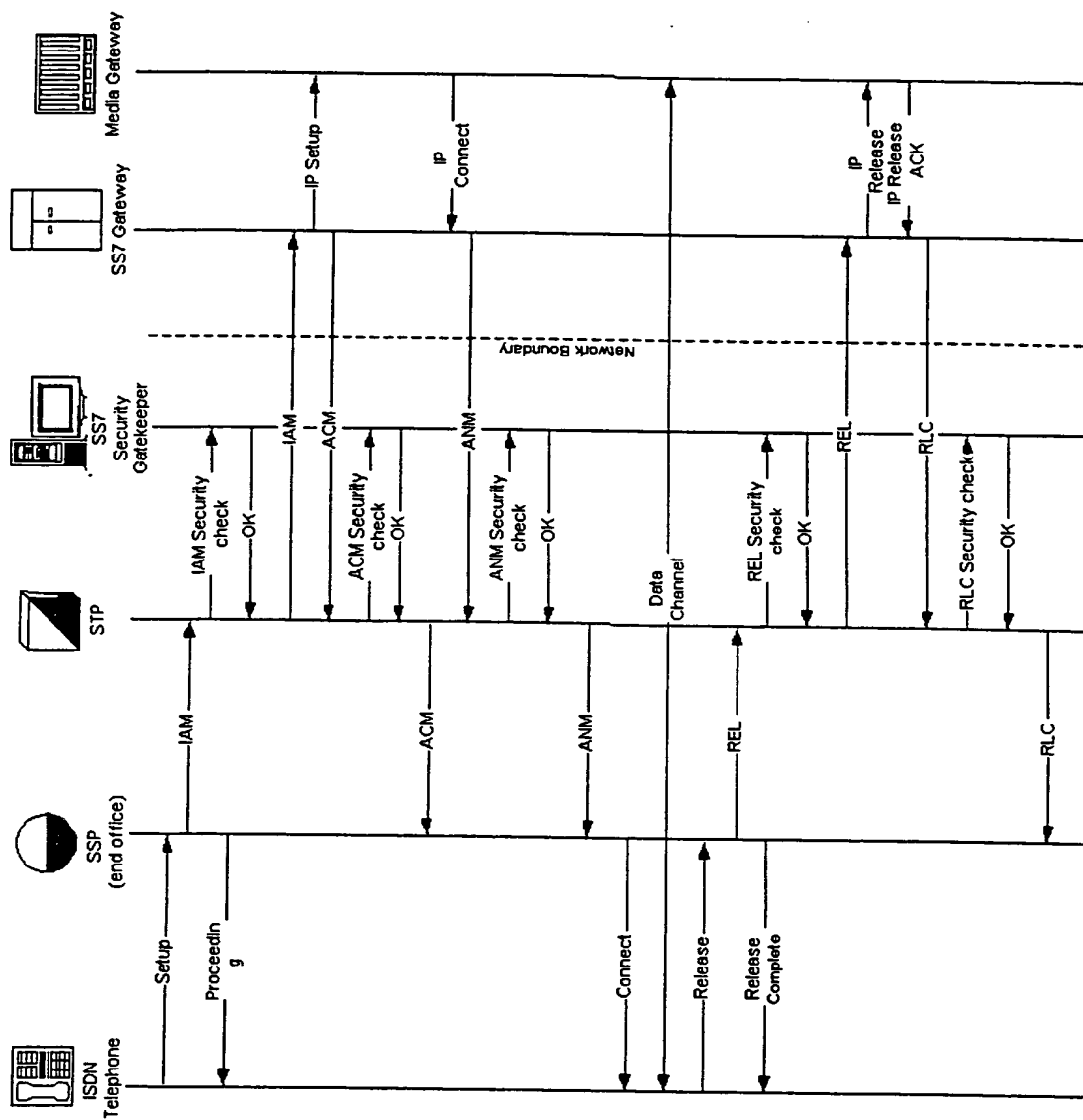


Figure 6

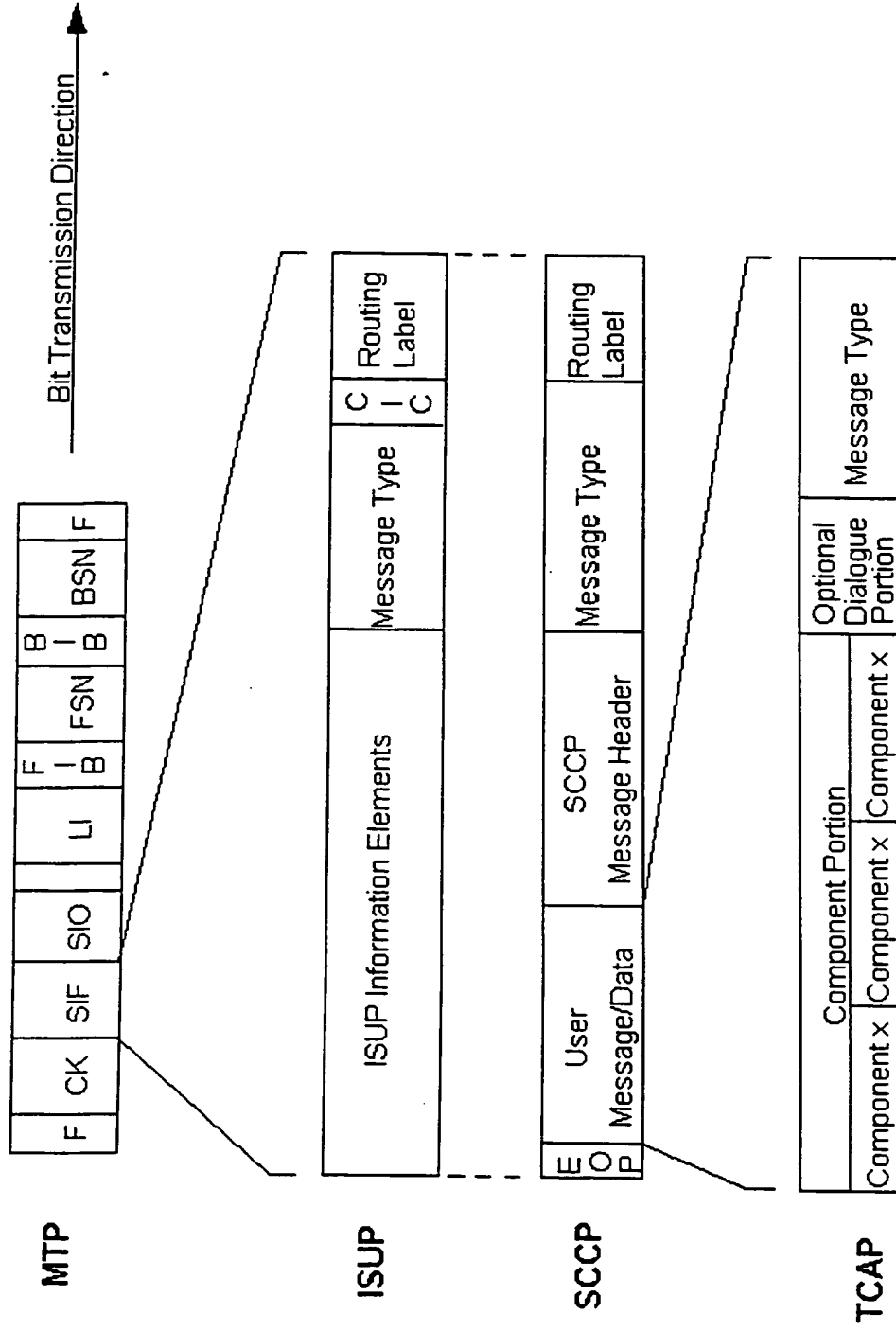


Figure 7

ISDN User Part Message Format Coding  
(LSSGR GR-606, Iss. 3 1/99)

Flag	A	8	7	6	5	4	3	2	1
Forward sequence Information	B	Backward Sequence Number							
Backward Sequence Information	C	Forward Sequence Number							
Message length Indicator	D	Spare		Length Indicator					
Service Information	E	National Network Opt.	Mess Priority	MTP User Part (ISUP)					
Routing Label	F	Destination Point Code							
		Origination Point Code							
		Signaling Link Selection							
CIC	G	Circuit Identification Code							
Message Type	H	Message Type							
ISUP Information Element	I	ISUP Parameters							
Check Bits	J			Check Bits					

Figure 8



Name of ISUP Parameter
Length Indicator Parameter
Content Parameter
•
•
•
•
Name of ISUP Parameter
Length Indicator Parameter
Content Parameter

Figure 9

Security Context
Security Context Length Indicator Parameter
Security Context Parameter Value

Figure 10

Value	Meaning
0	Not used.
1	Data Encryption Algorithm
2	Integrity Check
3	Message Code Authentication
4	Sequence, Timestamp and Identification

Figure 11

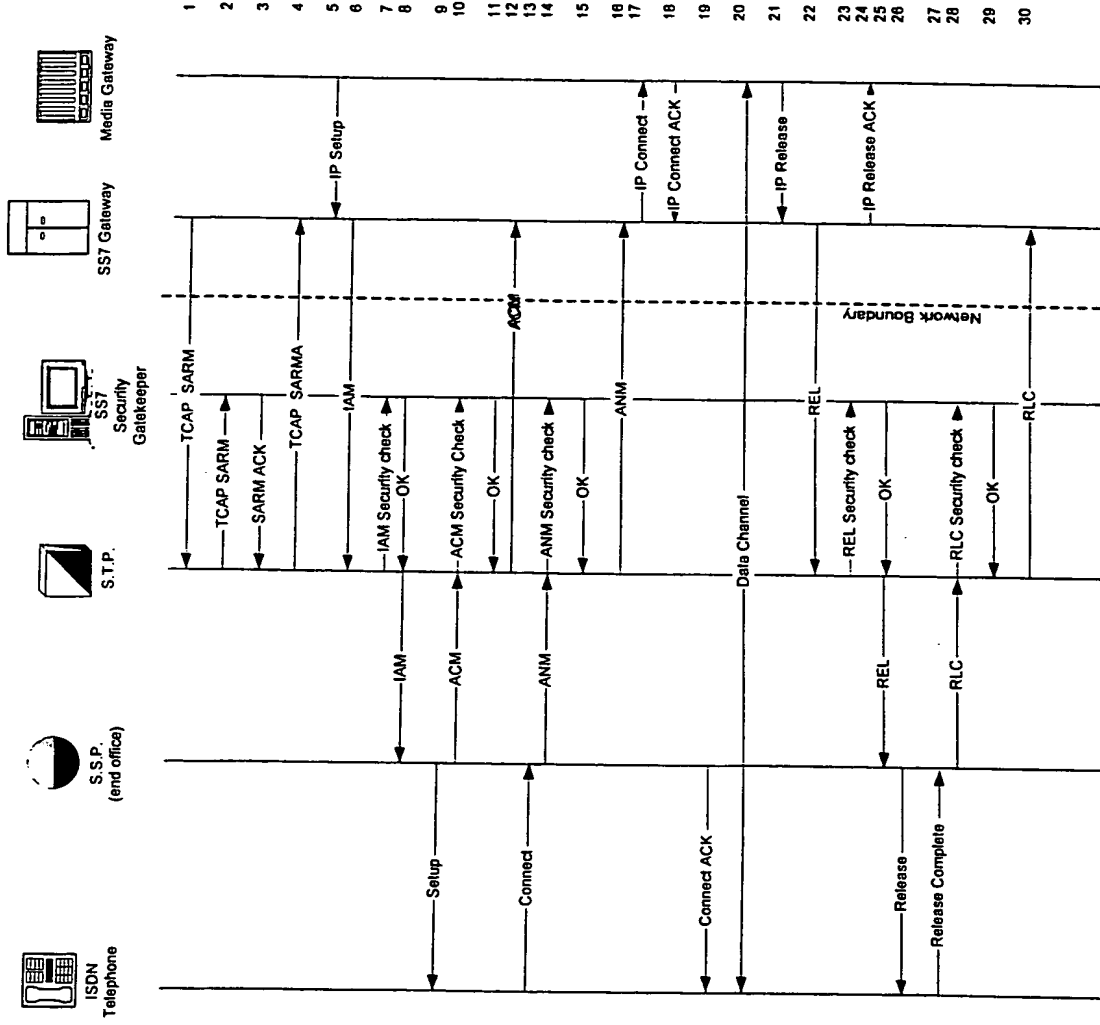


Figure 12

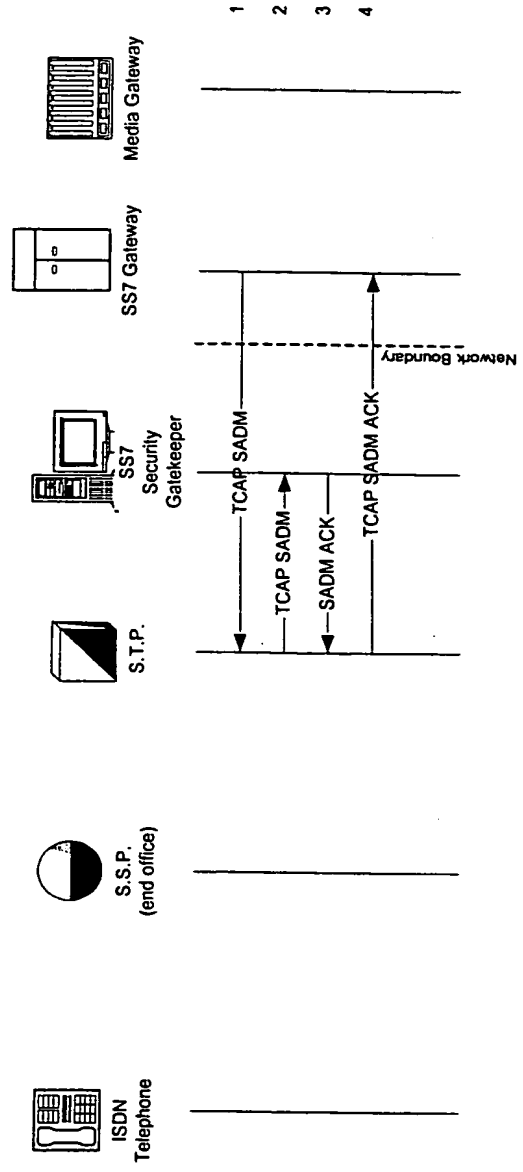


Figure 13

SIO and Routing Label	
CIC Low-Order Octet	
2-bits spare	CIC High-Order 6-bits
Message Type = 1	
Nature of Connection Indicators	
Forward Call Indicator Bits H..A	
Forward Call Indicator Bits P..I	
Calling Party Category	
Offset of 1st Mandatory Var. Parameter	
Offset of 2nd Mandatory Var. Parameter	
Offset of Start of Operational Part	
Length Indicator of User Service Info	
User Service Information	
No. of Octets = Length Indicator Value	
Length Indicator of Called Party No.	
Called Party Number	
No. of Octets = Length Indicator Value	
Optional Parameter Code	
Optional Parameter Length Indicator	
Optional Parameter	
No. of Octets = Length Indicator Value	
End of Optional Parameters Indicator	

Fig. 14

SIO and Routing Label	
CIC Low-Order Octet	
2-bits spare	CIC High-Order 6-bits
Message Type = 6	
Backward Call Indicator Bits H..A	
Backward Call Indicator Bits P..I	
Offset to Start of Optional Part	
Optional Parameter Code	
Optional Parameter Length Indicator	
Optional Parameter	
No. of Octets = Length Indicator Value	
End of Optional Parameters Indicator	

Fig. 15

SIO and Routing Label	
CIC Low-Order Octet	
2-bits spare	CIC High-Order 6-bits
Message Type = 9	
Offset to Start of Optional Part	
Optional Parameter Code	
Optional Parameter Length Indicator	
Optional Parameter	
No. of Octets = Length Indicator Value	
End of Optional Parameters Indicator	

Fig. 16

SIO and Routing Label	
CIC Low-Order Octet	
2-bits spare	CIC High-Order 6-bits
Message Type = 16	

Fig. 18

SIO and Routing Label	
CIC Low-Order Octet	
2-bits spare	CIC High-Order 6-bits
Message Type = 12	
Offset of 1st Mandatory Var. Parameter	
Offset of Start of Operational Part	
Length Indicator of Cause Indicators	
Release Cause Indicator Parameter	
No. of Octets = Length Indicator Value	
Optional Parameter Code	
Optional Parameter Length Indicator	
Optional Parameter	
No. of Octets = Length Indicator Value	
End of Optional Parameters Indicator	

Fig 17

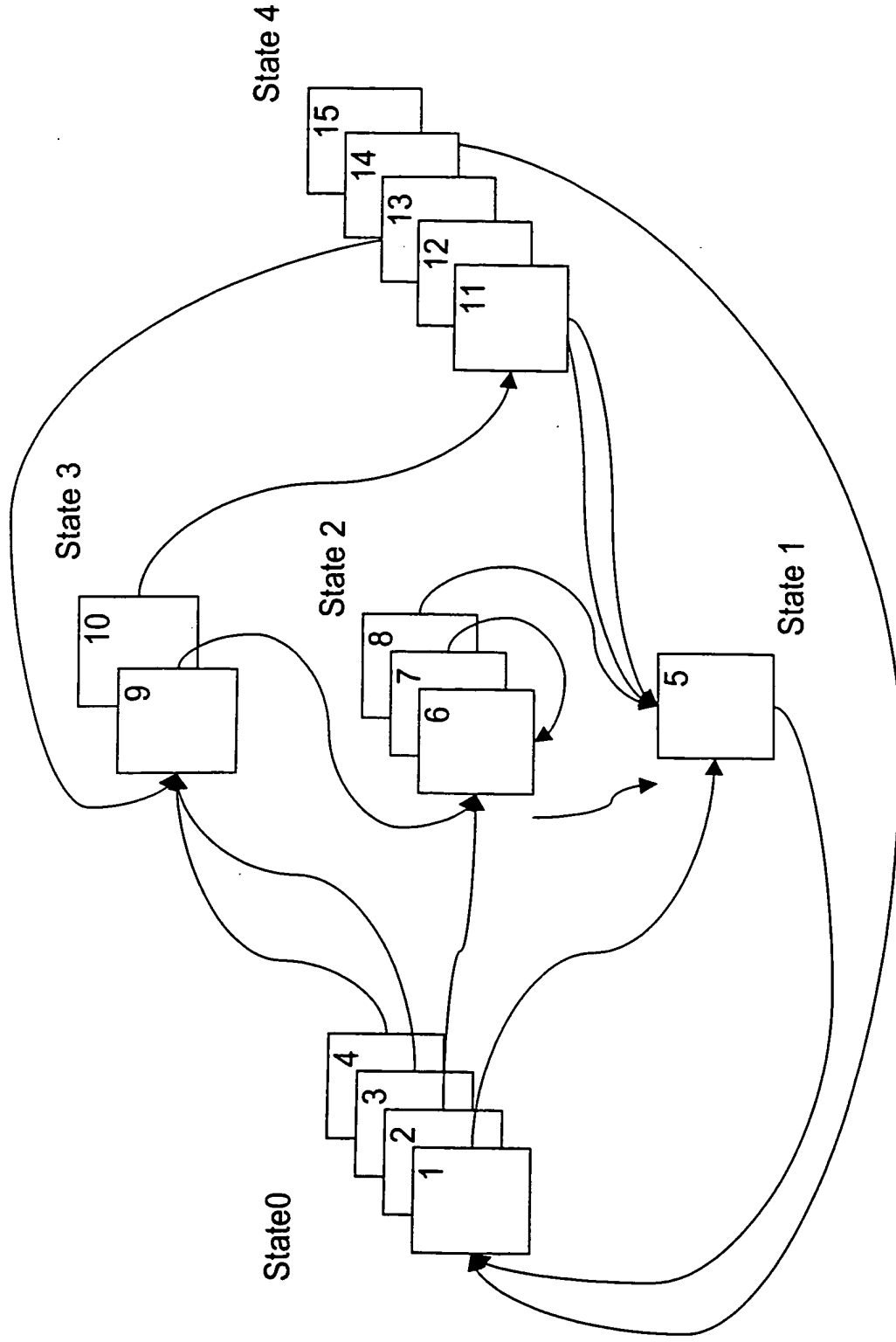


Fig. 19